Bamboo Mission

*274. SHRI GIREESH KUMAR SANGHI: SHRI SANTOSH BAGRODIA:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether it is a fact that under the Bamboo Mission, Government have earmarked funds for assistance to Non-Government Organizations/ private bodies for innovative work in the development of Bamboo application;

(b) if so, the details thereof;

(c) the names of the organizations to whom funds have been sanctioned indicating the names of the project work along with funds sanctioned;

(d) the names of the organizations whose applications have been kept pending together with the reasons therefor; and

(e) whether any application has been rejected; if so, the reasons therefor?

THE MINISTER OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL): (a) to (e) The National Mission on Bamboo Applications is a Technology Mission established by the Department of Science & Technology during the 10th Plan. The funds for the Mission are allocated by application segment, for (a) wood substitutes and composites, (b) constructional and structural applications, (c) Agro-processing, (d) Industrial applications, (e) consumer products and (f) propagation and cultivation. These funds are utilized to carry out research and development for value added products and applications and to promote the commercialization of developed technologies. There are no earmarked funds for assistance to Non-Government organizations/private bodies. The list of organizations to whom funds have been sanctioned, the project and funds sanctioned are given enclosed in Statement-I. *(See* below).

Project and activity proposals are examined continuously through an ongoing process of technological appraisal and established procedures. No application, subsequent to appraisal and review is pending for sanction.

The applications rejected along with reasons for rejection are given in enclosed Statement-II.

Statement-I

Organizations to whom funds have been sanctioned (in Rs. lakhs) by the National Mission on Bamboo Applications (NMBA)

SI. No.	Name of the Organisation	Project approved	Funds sanctioned
1	2	3	4
1	NT-Bombay	Activated carbon from bamboo-feasibility Study	3.00
2	IIT-Bombay	Bamboo properties & end-use matrix-assessment study	4.60
3	State Forest Research Institute, Itanagar	Development of protocol for vegetative multiplication	1.50
4	Engineering Resource Group (ERG), Bangalore	Bamboo shoot processing techno-commercial packages	6.50
5	Indian Council for Forestry Research & Education, Dehra Dun	Technology-dossiers-cum-manuals on packages of practices	2.00
6	C.P. Consultants, Delhi	Techno-Commercial Feasibility Report on activated carbon	2.90
7	Department of Polymer Sciences, Kolkata University/ B.C. Mitra Associates	Anti-fungal & anti termite treatment of bamboo and establishment of resin system	3.20
8	IIT-Bombay	Bamboo characterization for thermo-chemical and feasibility	2.88
9	Cane & Bamboo Technology Centre (CBTC), Guwahati	Development and demonstration of structural applications	11.95

1	2	3	4
10	IIT-Bombay	Preparation of Draft standards for flooring tiles	1.30
11	Engineering Resource Group, Bangalore	Development of technology packages and training manual for bamboo shoots processing at cluster level	1.80
12	Indian Plywood Industries Research & Training Institute (IPIRTI), Bangalore	Process Technology for Bamboo Boards	4.75
13	ASNTS Polytechnic, Wardha	Development and demonstration clustered bamboo based housing at Salod, Wardha	28.07
14	STADD Development Network, New Delhi	Market Survey study for assessment of market potential of bamboo flooring and bamboo furniture components	7.75
15	Andhra Pradesh Technology Development Corporation	Development of value added applications involving bamboo & commercialization of related technologies	7.45
16	N.S. Machine Tools, Ludhiana	Design & development of primary bamboo processing machinery	14.10
17	Sugga Engineering Works, Delhi	Design & development of primary bamboo processing machinery	4.22
18	Garnet Tools, Dewas	Design & development of primary bamboo processing machinery	10.47
19	Woodmaster, Ludhiana	Design & development of secondary bamboo processing machinery	27.95

20	Composites Design Centre/Society for Development of Composites, Bangalore	Development of technology for bamboo sandwich composite materials	32.50
21	Dr. Zakir Hussain Memorial Trust, New Delhi	Demonstration of bamboo plantation based technology packages for soil reclamation & stabilization & community level shoot cultivation	21.59
22	Engineering Resources Group, Bangalore	Evaluation of techno-economic suitability of bamboo processing machineries	3.00
23	Haritha Eco Trust, Khammam	Development and demonstration of structural applications involving the use of bamboo and bamboo-based material	13.00
24	C.P. Consultants, New Delhi	Techno-commercial feasibility report for activated carbon	8.38
25	Kerala Forest Research Institute	Draft Indian Standard for testing for physical and mechanical properties of bamboo in round and split form, preparation of a comprehensive user-friendly bibliography of world bamboo-related literature, field identification keys for selected species	4.53
26	STADD Development Network, New Delhi	Preparation of application profiles	2.325
27	NT-Delhi	Development and standardization of technology for application of natural colourants on bamboo and bamboo products including creation of a technology package and its demonstration & dissemination to potential entrepreneurs and artisans	8.00

1	2	3	4
28	ABETS, Indian Institute of Science (IISc), Bangalore	Assessment and promotion of potential commercial units based on bamboo gasification & charcoal/ activated carbon in the North East	15.00
29	Rain Forest Research Institute (ICFRE), Jorhat	Control of soil and river bank erosion in Majuli through bamboo based vegetative embankment	25.00
30	Kosons Forest Products, Kolkata	Establishment of a bamboo flooring and composite manufacturing unit at Guwahati (with TDA-repayable assistance)	245.00
31	Viklang Kendra Rural Research Society Allahabad	Preparation of an Atals on Application of Dynamic Properties of bamboo for assistive device for physically challenged persons	11.04
32	State Forest Research Institute, Itanagar	Standardisation of propagation, planting method and development of Phyllostachys pubescens (Moso) in Arunachal Pradesh	2.024
33	Survey of India, Dehradun	Specie level bamboo resources maping and assessment in North-eastern region	62.00
34	IIT- Bombay	Demonstration of Drum Charring units for making bamboo charcoal in five different locations of India	11.92
35	Institute of Himalayan Bio Resource Technology, Palampur	Introduction of Phyllostachys pubescens (Moso) by establishing experimental and demonstration plot in Himachal Pradesh	8.8271
36	TERI, New Delhi/State Forest Department, Madhya Pradesh	Demonstration of technology package for bamboo plantation with soil enrichment and amendments using fly ash and mycorrhizal biofertilizers in Districts Korba & Sehore	43.48

37	ERG, Bangalore	Demonstration of the Technology for community level processing of bamboo shoot at eight locations including six locations in North-East, one in Karnataka and one in UP	5.40
38	Phulwari Bio-Tech Ltd. Chandigarh	Project for supply of tissue culture plant material for field induction	7.50
39	Growmore Biotech Ltd., Hosur	Plant multiplication and supply of Tissue Culture Plant (TCP) material for field induction	41.15
40	Nagaland Foods Pvt. Ltd., Dimapur	Setting up a bamboo shoot processing unit (1800 TPA). (with TDA-repayable assistance)	145.00
41	Luit Valley Food Processing Pvt. Ltd., Jorhat/NEDFi	Bamboo Shoot Processing and packaging unit implementing by Luit Valley Food Processing Pvt. Ltd. (with TDA-repayable assistance)	30.00
42	Deva Bamboo, Imphal	Establishment of Bamboo Stick Making unit at Manipur (with TDA-repayable assistance)	11.25
43	Vaikunthbhai Mehta Research Centre, Mumbai	Project on Bamboo production-consumption Study	2.00
44	TERI, New Delhi/ Government of Andhra Pradesh/Government of Assam/GB Pant University	Establishment of Bambusetum at three locations of Guwahati, Pantnagar and Hyderabad	105.60
45	VEDHA, Nagpur	Establishment of mechanized bamboo furniture unit (with TDA-repayable assistance)	20.57
46	Forest Development Agencies, Udaipur/Rajasthan Forest Department	Demonstration & Bamboo Plantation Based Technology for Community Level Shoot Cultivation and Processing	5.90

1	2	3	4
47	UBFDB. Uttaranchal	Establishment of demonstration & experimental plots at suitable location in Uttaranchal	28.12
48	GB Pant University, Pantnagar	Support for coordinated trials for managed bamboo plantation	3.89
49	Vighnaraj Bamboo Products Pvt. Ltd., Guwahati	Setting up a Bamboo Blind Manufacturing Unit1 using Power Looms (with TDA-repayable assistance)	7.50
50	Bharatiya Cha Parishad, Assam	Demonstrative Bamboo Plantation (Tea Sector)	7.20
51	IIT-Delhi	Development of Know-How for bamboo fibre production through the non-pulping route	4.80
52	IISc, Bangalore	For layout, installation, monitoring & commissioning of bamboo dust based biomass gasification system for thermal requirement of lime recovery unit at Nagaon Paper Mill, PHC	3.50
53	Shriram Institute for Industrial Research, New Delhi	Exploring the feasibility of utilizing bamboo fibre for non woven applications such as absorbent material for hygiene applications and wound dressings	5.47
54	Institute of Wood Science & Technology, Bangalore (ICFRE)	Demonstrative plantation of Guadua angustifolia to study	3.63
55	Woodmaster, Ludhiana	Establishment of machinery production unit for bamboo processing (primary and secondary) machinery (with TDA-repayable assistance)	159.60

56	URAVU, Wynad, Kerala	Development of bamboo props and validation for horticulture	8.305
57	Barak Bamboo & Cane Crafts, Assam	Development of range of mechanized bamboo craft & knock down furniture made of mats, sticks & strips (with TDA-repayable assistance)	17.00
58	Greentech Farms and Agro, Dimapur/ Nagaland Bamboo Development Agency	Development of production processes for activated carbon from bamboo	4.70
59	Srivari Metal Works, Hosur	Development and production of bamboo composites (with TDA-repayable assistance)	168.00
60	SP Fabricators, Bongaigaon, Assam	Bamboo stick & silver manufacturing (with TDA-repayable assistance)	35.00
61	Sri Sankara Educational & Charitable Trust, Trichy, Tamil Nadu/Indian Plywood Industries Research and Training Institute (MOEF), Bangalore	Demonstrative unit of bamboo mat manufacturing unit by IPIRTI	24.95

Statement-ll

Applications rejected, including reasons for rejection by National Mission on Bamboo

Applications

Sl.No.	Applicant/Programme Title	Reasons
1.	Locational trials of different species of bamboo to develop & recommend standardized Plantation technology for culm, shoot & culm plus shoot production (Amity School of Natural Resources, NOIDA)	The work proposed is already being carried out under a programme of multi-locational trials coordinated by GB Pant University, Pantnagar

Mauda Thermal Power Plant in Nagpur

*275. SHRI VIJAY J. DARDA: Will the Minister of POWER be pleased to state:

(a) the steps that have been taken and progress so far been made for implementation of the 1000 MW coal-based Mauda Thermal Power Plant in Nagpur;

(b) the expenditure so far incurred thereon and by when the same is likely to be completed; and

(c) whether any specific difficulties are being faced presently in this project?

THE MINISTER OF POWER (SHRI SUSHIL KUMAR SHINDE): (a) to (c) In the course of identification of power projects for NTPC's capacity addition programme, a site near Mauda was identified as one of the prospective sites in Nagpur district of Maharashtra. The works for various site-specific studies such as Topographical Survey, Geo-Technical Investigation, Seismic Study, Environmental Impact Assessment Study and Make-up Water Study etc., for the project were taken up by NTPC to examine the Techno-economic viability of the project. So far, approximately Rs. 25 lakhs have been spent by NTPC in order to prepare the Feasibility Report and establish techno-economic viability of the project.